



doc. 0133

If found by anyone please send to Report Charles Schuckert
Peatrely Museum

Jale University

Jan. 1925= 1926 [3776] Trip to Texas. see map 560

[3820] Apr. 3-Apr. 13,1926 Glave Mt., TX ? datu on either end.

Grant Blanchard







doc. 0133 Chew Haven, Conn. Dec 3/1925 Bot up and before having hearfast packed of the time suite cases, and then to the clur for outereal, trast and coffee. Lot \$200 and then the nailwood ticket to austin, Texas with depen service To how belown; cost \$82 2 here Ruedemann, Soldring and Bucher. At 12.15 P.M. Dunton took the whis Find to my norms, and than to the railway, where I checked The tran mas 15 minutes late or I st Salit at 1,10 P. M. The day's fine and owny. at the depot Lagam met Rudemann and Boldring. On Hell Sate bridge into Brooklyn me hal a gard riese of the jate, here jord City and cast Retired early, a trut 8.30 just as now mue geting into Baltimne.

irroute 1 (des s, far 1-1526 Sotupal Jexinstr. Payand hed hear part tefore me six to balisture, h.C. e due is tright tur he temperature is delar frugio. Tire service in the doubten din on. By fore in the evening not are in allasta, Sa. Tharel ornthogened in nt get decided, but he cand men are in the train and teputio is married of Fran & Pulinan. New Orleans, Lay Jan 2, 1926.
Saturday. Her transferred to D.P. R. R., checked my tapene and then saw your the quaint, but don't and oadly in overel of reposit Torine at 10.30 Land iff in a It. Charles nother neck closed can't see the city, and as I have never seen it hope, be next - mill S.W on St. Charles trat and arouse to the sim level, then to Lake Pondartrain, and tout to the city on The Creste quarters, The docerdant; the white French and Spanish. Arthard of me relical. Aftrisiana then longher them histories, and read a little in Them. at the Artif Montellone in Popal and Starible st.

3776/ At 9.15 Jam of on the Southern Pacific, having lower seven on car got. Will fette Houston at 8.30 tomorror marriage. Sunday enroute to Questin, Jan 3-1926. Botto Fourton on time; the deep is dark and all notine is wet. Had head fast at the Station and at 9.10 a. M. Jean of for austin. Soctor Blescood formerfol fall one of he linic. of Jexas is also on his over to austin and me find the vix hours together talking about cell Le unir y Taxas has 3000 student in Maniet. There taken a norm in the new the Courtin Artel and Iam theiding of mading this my home during he next ten words. I Slaverell said formeld have no thouste in saying all Irrant about crolution, only & must nothern donn religion and stead Egacuit he title. Ite trojet dohnld give a littine make colutini of man.

Centin, Brinday -an. 4-19-6 odly at the usual hour and nos at Lellard's Office tefre nine; he had not for arrived Mer he three ore talked on the situation, and at steran Pofison Lineads arrived. It was agreed Johnta give the feetures between 7 and of P.M. in Tursdays, bridgesdays and Thursday, The thru laterator hours ead wall I will have to anaye not the students Priferon Limento has a trie if se in ore volonting the entere city and the Cali F tuilding. In the adjacent it in is the Kepart. falentifyind laboratore de divide male this my Lordquarters ! Then Protesson demak introduced me to President Stain, a pleasant man of atmit Hogeans, and a paderate student of tadleys. Drus Preferen : Scormies and chieft , rail Aradig. It was over my apparaly that can To, 26 a apitalized frall tam mitt Trions The Unitarity and Espacials the Sett mind dep. that weeks a commento show the natural Mornices of the flate and to hove all of the

Sed dep. Lam To do interviewed willing the Pren and here is my "chance" to him northe are out the utterin furpose hat to rifmen and one tit to raise either among travelves of fer the Tog is ature to appear late me million dellars to a museum trilling, equipment, and tarohips and fellowships I will ar all Ican his dam their train that delivere is tout one million dollars, bood hers, rin if it all turns out as he theirto! It appears bott have fair facilitis todo sile mil, but as get Itard and green other this to fore to illustrate the girls finis of the many formations.

Westin, Tuesday, Jan 5-1926 from interviewed to the Press this afternoon, by Mr Homadag. His interview was all Amado the application of sellings toward the ratural recorners of the state. The know atsolutes on They of serling, and when I resed he mids "yourfu and Flow rocks" he walled tran technical terms que got fit me-Adat confused. Or he end I the line interview Le admitted that Le arneld not be lette triste an intelligent report and wanted to In. could from he report and adjust it. Luck in fullicity out of their in Texas to the evenywhere in Cornelia, to reporters whilly intracined for their owner. At seven in the evening to the Jamenes istrduced met testan it a region it. I expected a dan and and ince thetas serous har then must have been between 60 logo material oven and Thre ladies. Dean Harpen of the Enoducte Achor Preform denimines and Lellands were forsant Lesides sorgal instructors. I ... har non are taking become tomas a deput dolo not get Mine.

Taursday, Jan 14-1926. on Stratigraphy. At each one I have from 30 To 60 mon and mormen. I far as Iran from all are well pleased. Most of the evening for to the University ma the trille and tack to the tecestin' Hotel ora Lellands or Limons can Lattery Paul Leachne a Ú. Suburface geologist out the Frenchereys Co at Noustan takes one in his fine Chrysler to the lecture.

E, though Custer, and then men the Colored, river at montopolis to Delralle and acros Onion Creek to the first warded rise across the road. The Huff faces Onem Greek that soon gras into Colorado Rion. he kuff of known as East Base and is a triangulation station. The horizon is lovest hararro, and has Exogena cotata and my E. ponderna = Taylo.

tridag Jun, 15-1926. Today Paul Deashore at 11.30 Took one in his can to see some forsil collecting grand. be went outhoust ore the Upen Creticeous along the south side of the Color actor River, and at
It miles the gestin one turned in to the trank of
the pira ordere there is an expression at the trank of
35/5 260 hit of the hararro tomalide, to
of the Cretacenis, I is all a fifth the day with no hard wells althoring some then gres recur that cridents have more line from usual contata forsis that me sues Modily are Exigera /2 opening that in about he reses have tref raires. Fruid lope in he shown hell one laye Triponia and a price of a radiotate like shell, In the more line gove there was an atundance of order things, many Finalres milt morn tubs of amites. The sea tottom was been a soft mud lottom, and I filed to see to shal to Exerge or over the hal; ale asbeaud to have lee timitled about pour train flacon of attackment, and they troll pase at any time if life. Just what he say muite Upper Cretacions means in regard to the shoe and land I cannot make out. I must look may into the water in the Lellards.

Then left East Base and passed Sanfield and Olysium to Cald wells gate. Then act on the farms to a tend in the Colored Rion part on The founday between Travis and Bostrop eventies, by Creek ines in a little farther down stream. Lee Bosties Queda angle, min Budrer cull This le. One-Kalfatore the most of Die Creek and 3/2 to 4 mils dom-stream for Detterville, Colorado Rivin: atre the Ponezicardia hulla hed is a "dark fay sandy Clus, and atmeths " a quite similar hed characterized of the frater abundance of the erral Flatellum convidence taughan." Here Sardrer has 6 Frams, I coul, at least to pelcy ports, and 16 fastisfieds, "The Midney Filery contact printy occurs not for below," means do a stream. To my from ome for dilect midway.

across lyfu Cretacions fire farm lands when there was a little rise in the orunty, making the havel Midway - Econe. There was a fereaftithe dij sea. ward ties server todo to it had an atrendance of large feet uncietions, another mile 5.8. bright it was In the miles to the irre to the forilifermi Inighter. Abot me saw here was less than to fat if the forthe man all highly froit was Below for the far to hira was freenish Had my soft day reflete wiff here; nardin m mall nests and lage arme at me (there atom) me fort hich) that Crade a landered lager (took we laye lump). (mit , the o help are double valued and are me to Empresion that they in we in their Disinfortation and potass held in place by a timers. With These som almost nothing clic. about a fact the paint glauconite are of which are saw and more train 5 fat, and our relecting was out of a cartral gove. Here reen many this in facts opened and smaller teration along mitt served species of out dexactals. be clay mes or met and rift that I don't it

Hen out to the highery and I.E to the road from to North's Ferry across the Colorado Rion. It was at the Hemphile Prairie that me for the rootus, some humches of fat above the base of the Delcox.

In the evening J. A. Beede called to see me. be talked from Tievas get ogg.

Toraminifus (hodosaria y to 3/8 mich my) were common. Didd fromed be done here into get out the flau. Cruite in Hooks and corred with Haster addott, and then cleaned at home. When their is done I am one fim to to 100 ofecies will be the result. It is said the tre finite midray flace for foris, Then me motored my to the lightray and rest 2 miles further S. E to a read that reart n. Way This would are overt less than I mile to hours I a very their sheeled and long healed botton. Hey make tanks from a for flor more to to ross 10 to 20 ful thick in the billery formation, This is O. Tasey bardner. on the morning had a long talk with one of my Tale students Cliften M. Keeler atout ome ford Comanchian collecting in the Edwards , reac Certi. point. On land of J. L. Keith, one mile part y Estupoint, Men Eu, on old I an antonio Trail. The test or lection is in The Fands of Verde Creek and Suadalupe Rin. Reit can is out of us me mitte

Cocording to Hill and Your Land Filir Cuiston Quadrangles are that me vary in Blens De formation - cut the way from Mr. Bonnel down to Bull Creek.

These are Parroy Stis pruniformio Crajin

The Requienia tel is lordon in the Alemore.

Sunday Jan 17-1926. In the afternoon Paul T. Leashare took me in his can most west towards Mt. Found toide the Colorador River the tegen to collect about 8 miles out of auction in the Comunication, may be in the Arabnut Clark hill uf or the Kuffs facing the sire, there are git a far tiralres and about 18 specimens if a little regular extine, and one Holee to bus - like irrejular echini. once he 25tr 35 feet love down, we for more tirabres and in a their your a lot of alcauses affac reminding of Pasciolus. also one Holetypus. Then down the fluff to the Great & Bull Creek she another little rein rows or there, about 1/4 miles atme the north of bull Crull into te Choode River. This to in the Slewise formation. Here we say a me less than me took thick comprised of Cristulines, here are ready the Pascerless like affactions down me collected Requienta that made a gree l'tro incho the 11. He Sleng se here is an alteration of ofter and hander limetines; the Jomis come in the soften gross.

BOOSTS CROP PROSPECTS

Brow of Jan 23-24-1926.

Ranks of Snow-Men Appear As Austin Celebrates 25-Year Record Fall.

Old and young in Austin continued a winter frolic Sunday as the heaviest snow of history in this section of the state melted under the the state melted under the sun's rays which appeared from behind grey clouds Sunday foremoon for the first time in over 36 hours. The record breaking snow which began falling at 6 o'clock Saturday morning continued steadily through Sunday night and until 9:30 o'clock Sunday morning making a continuous fall of over 24 hours and spreading a six inch

Saturday morning continued steadily through Sunday night and until 9:30 o'clock Sunday morning making a continuous fall of over 24 hours and spreading a six inches cover of white over the city and surrounding country. According to oid-time residents nothing comparable to this blizzard had ever been seen here.

Youthful residents of the university district and the downtown section, reveiling in the heaviest snow of the year, seized the opportunity for winter sports, and although their equipment was hastliy improvised, several sieds were seen on hills of the city Sunday morning before traffic had changed the sixinch snow into dirty slush partially covering the streets and filling sutters. The principal sport of the morning was snow-balling automobiles and pedestrians, and both in the university district and downtown, of making hundreds of "snow men."

Downtown Battle Ground.

Downtown Battle Ground.
The corner of Seventh and eess avenue became a snow attle ground about 10:30 o'conday morning when groups a battle ground about 10:30 o'clock Sunday morning when groups gathered on opposite sides of the street and pelted passing automobiles or threw snow balls at the rival group. Later in the morning young men had lined each side of the block between Seventh and Eighth streets and were showering automobiles with snow balls from the time they entered the block until they left it.

Snow Sculptors Revel.

Snow men in the yard of Roy A. Miller, 604 West Sixth street, and at the Central and Guadalupe street fire stations, attracted particular attention. That at Central station was more than 15 feet high, and 22 feet around at the base.

Young women on Twenty-sixth street went in for artistic sculpture in modeling out a woman's figure to almost lifelike shape and realism.

Streets throughout the downtown

in modeling out a woman's figure, to almost lifelike shape and realism.

Streets throughout the downtown section were rivers of siush as soon as the snow started meiting about 11 o'clocic. Gutters were filled and streams of water were flowing in the centers of some streets.

Co-eds Are Pelted.

Co-eds Are Pelted.

Co-eds are Pelted.

Co-eds continued to draw the fire of sutdents on Guadaiupe street at the university, and giris wearing woolen anklets over their hose were especially peited.

Church attendanc was cut over haif because of the snow, according to reports from several downtown churches. One Sunday school superintendent said his Sunday school members were playing baschail with snow balls and that attendance had been cut over haif.

The snow meited rapidly after the sun began to shine about noon Sunday and early in the afternoon the slush had practically all gone into gutters.

Actual precipitation during the Saturday etorm was 41 inches, according to the official reading made by H. H. Henderson, weather observer. In measuring precipitation, snow is meited and a rain gauge is used for determining the inches of actual water. Temperature remained at 25 degrees throughout saturday, but mounted to 30 degrees during the night and early morning, according to the official reading made Sunday morning.

Austin received a total fall of seven inches of snow during the snow of Saturday and Sunday, according to available information. The fall in other towns and cities in central Texas was as follows: Leckhart, 6 inches, 50-year record broken; Blanco, 6 inches, heaviest in history; Elgin, 6 inches. Thrall, 5 inches; Bartlett, 6 inches, heaviest since 1917; San Marcos, 6.75 inches;

Austin, 7 inches.

The following snowfall was reported Sunday: Johnson City, 2.50 inches; Cherokee, blanket of snow; Bertram, heavy snow; Floresville, steady snow; Elmendorf, 2 inches; Big Wells, 3 inches; Devine, 4 inches; Austin, 7 inches; Flatonia, 6 inches; Burnet, 6 inches; Berthab, heavy fall; Taylor, 6 inches; Hallettsville, 2 inches; Nordheim, 6 inches; Yoakum, 3 inches; Victoris, 2 inches; Comfort, 10 inches; Bloomington, steady fall; Rockdale, 3 inches; New Braunfels, 2.50 inches

Texas' Oil Wealth.

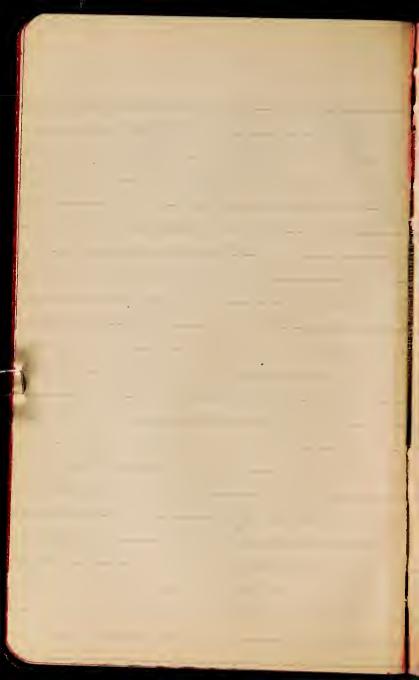
A CCORDING to the Dallas News in 1925 Texas produced 150.000.000 barrels of petroleum, the price of Texas oil throughout that year averaged about \$1.75 a barrel and on that basis the value of petroleum in Texas for that year exceeded \$260,000,000. Is there money in oil?

To my comment of the Rive lose. Laturday Fer 13, 1926 Tors the birtly to 3 x street north austini, and then racked for half an home to the localit in the top of the Lengton. This dell side I reality faces the rifle- rays. Lot more of the same thop fitter of fun. 30. There are the Kinds of cehinics have. The common wein It. elegans; ciring one of these are orapour with opelus ad ser, ulids; induly they did on remain turied after death in the muss, but when weeked at of he wars. bir one hij options. Collected by myself of Aral Creek on Feb 18. but 2 other Enallasters and many time & arietia and orsphasas. Wor a fred stat it E. lu spage in

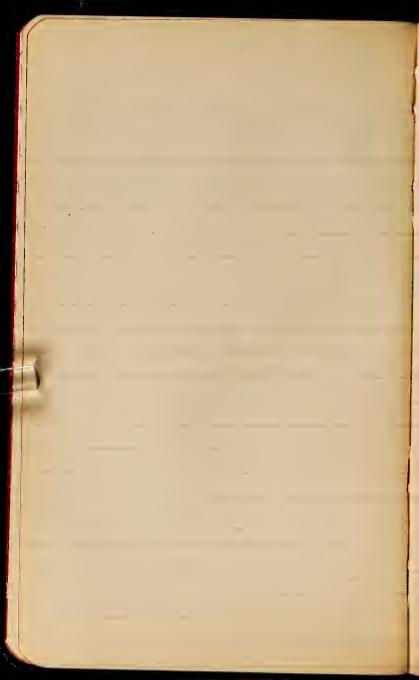
Saturday, Jan 30-1926 This afternoon Ar. dellands took me in his Ford to see ome bashita collection ground. In went anotherest atout 3/2 miles from the conten of Clust in or atout 1/2 miles never from his done, on the read to Mt. Bonnel. at the farthert not loc. ore saw the top if the del Rir clays, atout 20 fut thick and just bereath the Buda linestine. The latter gields but for finis and sit nine. The top of The Rel Rir clays teem mitt fire free ofcernous of Exporgra aricting and once good brighals mucionata. Other fries affect lite about in Trac dout flue chays. atout 1/2 mile 5.8 hourde The wand-down the hill- is a fine we some of war the middle , the Brogetown limetimes and mare faitings. Have finis are training tuk for ford mes are the had as most of them treat of in most training not. Est dix good Homiactu dejans, me hauthlus, many l'ingera vaco nitted lestronia and some lage or stus. in thral rech, nearer Custin we collected done in the top , he held it days. at the regition me At The Endlastus. E. arietina in manes and the had here, Troll tire good slats of them.

On Shoal trull our the Suda comes the Carle Ford Comminated fine sandy shales, earth Then limetime, and liming oundations. The whole is extract shows at not stat. Many of the fature trail layers are reflete with Eganvid orales, lay and olender teeth and occasional fish tones. Ofther Pagers are crowded with small Ostrea like Conjecta, while me of the thicken Dandolms has small and days parment of Incuanus Colorado a semto je. Whitney and Printer both Day not a single ofecies fances from the trastita into the Colorado. The disconformity therepre areans emoiderable of a time break. The actual entact for is circul or by talus. The presence of sand and he resters indicate Shallow frater, in it he high comminuted fish matter alor show ware over Pretaty the definits represent a depth i arrend to feet; saw no pulling of of The Pottom, no channeling.

Laturday, Feb 6-1926. ut 6.30 mis looning I gathered with about N others (ammy from PreSident Splaner, Dellards, Praice, Whit my Lonsdace) of the Tixas himis. intuested in a State museum To be connected milt be University. after a good derive served at the Unix, Commons, I was wolled to make the Haven deed nation address, could then law had kg. my to the needs , a University hatural diviting Onusum. Place of oke nelet, then the Sielt I be let Justin and serval others, Finally President offanis sporte and stowed that do was in sympath with the idea and that he Rejent hu had alrealy wited they interest in the natter. But Le alse Spoke of the difficulties is this one atmit propagarda Tota dire. I tran moved tal me njunize moself into a Museum Workenton in which reas done, Profl Pearce was elected President with dellarts as Vecretay. Hose tor Africas mit the others constitute (of he Executive Com. Topusare him nitros, unila inculars. as some owing is reeded at mee I see and made a present of \$100. The ball is now morn, and then mill beg



Saturday Feb 20-1926 Spent out Lellards the late afternoon extlecting in the Walnut days at read metal quarry voix miles N.W of austin' Tex as, Just 5.8. of Ly Creek on Word to Bull Creek. This wany is alre a sorred; and from the hard in The face I me if he faults, he Balcones optime minutale of half of he class is comproved in immatale for thatas, exercise a terranalim) and cost of sustroperso, Of inequal cohinit, me for 24 that were restricted to a more muddy fore mit wer from fut thiel. The amminited then of the holl nut up said a about to put. If we had had tom know more here I he could have gotten a ain as may more and fries to far this locality had the or that other dance of trois and in pratort atundance. Outside of the motors now of the mothers on preserve The steels. The mythat ogstu fault was telor, about 10 fut thick, then To exhinid layer above followed to a one of atout 2 fut miltibe layer tand feet exogen lexana



Lunday, Feb 21-1936 after dinner oralled overt a tout a mile to Bailor Springs. The opings rather layer arms int I the facility blane onthe for benjetom to the S. and the austinohald to the n. saw the regulation things. Forth away but little. be the small lot, libere the Benjeton along the Arad me sees the Del Rir Hue along and above if he tren Brida Li. In the clay just towath the Buda offine coul, Culy the Constini trok sime arend their that may be of myes; they are from a riffled layer willation riffles). Le Buda has rolitie-like layers and trose have inspelar flat clay inclusions that are due to storm craves.

Nouston, Feb 26-1926 Left Wistin Part night at 10.40 and got here at 7 a.M. Put up at Rices Stotel. Had a good night in the Pullman. Then called an De boll I he Sumphreys Oil Co and unamped for the evening talk. Spark most of he time with my leashar heat called on R. F. Baker and was mich him to be University Clar for leach. Then called on trallace Pratt but he was in court. Tried to see My Deursen and Min Lane hat try had moved transfer building that sould not locate. Min Elisor was at home mit a cold, and as Oms affin has guit all falentapied Mice word I saw hat of little of the falentst girt have. min brickers Have in the Tixas Co. is more taken by Mr. Miller of Lentucky who got his outsurface falsentelogy por Ballura, at Columbia. He ach as I be is by use means the but posted man or derom on Francis here in Houston. at 3 P.M. went with Am. Vetter to the Houston Cler to an ange for a stand to hold my 18 maps to illustrate my talk on Texas Hore Zins.

There were about by first dinner at the Houston Club which Legan about 7.30 P. M. Lace were about to laclies and among tran the pallost ogist Mrs Plusumer and Min Lane. The Jounge Steenia was also present. Comay to older men mare De bolf, Pratt, Deusen, Deentle, Baker, Stafer (chairman), Barton and others whose names I of recell. (8.30-9.30) Leld the interest ellet fall, and tran my remarks were ofened to guistimes or criticism which Shad invited, Deunan believed that I was had shown the salt of the down the of Permian age, I showed it the impristle and hesides a facturium cannot have the age of any Thad said that since an average salt Mug had about me cutic mile of salt that of it came pom a wehi. hed so fat thich it brould have to have flam tycke from an area of to ming radius, I was corrected to Fries radios. Therefore to sall has in no case flown very fac Duntle Said since the Congric for matinis are thicken twards the sea, terefre Lanoria must have been present wan trem. He is clearly in error since

this thickening can be uplained in a perfectly notinel way Hama apred to Sulf this and said the subscuface mirands all affear to come por the W. Miller tatestold me that the Cret. for our in the Miocone (2 ray characteristic forms) are for the austin- Taylor promotions to the wit. Pratt confirmed Quentle that he Congric hicken to the E. but drew no enclusion. The next day R. Fi Baler told me that he Congric in the E. he believed the at least 20,000 fut thick, and that the senface rutards of the Congric to the h. of solverton are around 10,000 fat thick. I made to point that he Inner dall Down It her salt out of the Comanchian. In the line s. land field Ety Bellevue field the Commande in is in red feets and there is here at least 75 feet of any dite in me fore. Furthermne the Trinity and Freduich. buy their mt against Llanoria and that rafe fact of te broshita gebacim.

Of what age tredall is in the Crastal domes I Could not say, that surmined ATTThe A Evene age. Ladded that Mnew of mravid thires in the Eremen The leading fellgists intrate were not convinced out my production, but I think no one will claim tu Tainte to know the actual age of the salt in the domes. I winder stand tren is Permian under prend at bloadde, Texas. The red heds and arbidite at malme Texas called by Crapin hope furance CL Baker has shown in an unputtithed mill te E. Duntle said there is much mydrite a gefour in the Adu Cengrie of A.E. Mexics. Lora 5. W. acim bull to about theist the left. My trend in ni mer said tren was an under grand ridge sall Jackson Min that has the trend of the life. Look of this matter; if cannot, however, affly to older time tran the Permius. Proces of mes in his fate of 19th that he mit of Ocla., and and beneath Red River here an E-W a better diftil S.E trend, Runs counter to the

left alachian trent. RF, Baker tild me during the day that the trend the Tesnus hit in the marathon uplift is n. E. S.W gut the Morte of the Rocky Int trouble
This obide them is mit at
all in harmon with that of the
Ceneustral Rockies of Lee. This is an important matter and needs losting into. all made Shad a profitable day. Saturday Feb 27-1926 Stouston at north R. F. Bleder and Lost started in his can for Balveston on the Bull shoes The distance by read is about so mides and in all this very the oldpe to sea-level is only 40 feet. The land is as level as a table and when drained (ditches) is good farm land to nother about so mis of her bul. Fix farms are much in advertising. Towards Holston all he streams are cut down to sea level with oranding water.

Salverton gets to water out of arterian day ords about 8-10 mils h. of W/ he cle. 学 baker tells me that he Aunicanes Rowing in pm the Self pile the water 14 fat above ordinary sea-level. This is deffinetf proces since at the h Wil Sulper (Mine sea water come to be 14 pot em. Mt tom. This is an important watter To hear in mind regarding where from owener. When that forward the present shore is about six out Hoes faither wet han it was topu the duricane. It is again tuilding not to sea. The land gres very padually into the sea, and the wind waves will in reg gently, protesty more an higher than 12 mides - to shallow is the shoe out to Lea. The sand is very fine, evan pained, and tack for the strand where dry to winds that I into aty i Pardones. These deenes pour higher toward he The Mir nande. Sereath the ainface the sand allt are replite with from 15- 30 species of small pele-Tel cofreds and ome fortaforts. (may are tried by tals) gestifred. Lea was are practically about Chitiming from tutes with thell glied all men tren are common. Lee tree samples of sand and mon - Má

Yale Educator **Urges \$1,000,000 Museum for Texas**

Dr. Charles Churchert Points Out Need for Such Institution at University.

In the preliminary steps which have been taken toward the establishment of a museum at the University of Texas, consideration has been given of the great service that it would render not only to the students of the university, but peopis generally of Texas. Men of science are especially interested in the accomplishment of the project. Or Charies Schuchert, professor emeritus of paleontology at Yale university, who is conducting a special course of lectures at the University of Texas, is regarded as an authority on museums. He was formerly administrative officer of the Peahody museum of natural history at that school and he has direct personal knowledge of benefits which are to be obtained from such an institution. He has evidenced much interest in the movement, to bring about the setablishmen of a museum at the University of Texas.

Museum Needed

"The people of this state need at the University of Texas a first-

Museum Needed

"The people of this state need at the University of Texas a first-class museum to show the vast natural resources of the state," he said. "Not only its mineral and agricultural wealth, but as well to show the animals common to the region and the archaeology of the peoples who once lived in Texas. It should not be merely a place where these things are shewn visitors, but above all to also be an educational center for the students at the university studying hatural history. It should also be the place from which are loaned collections and books to the high schools of "he state and even something of this same sort may be sent out to the public school. This last has been done by museums of some states. Its doors should be open to the public school, This last has been done by museums of some states. Its doors should be open to the public school, This last has been done by museum of Haryard university has cost more than \$1,250,000, has an endowment of about \$900,000 and its floor space covers about two acres. It is primarily for research. The Peabody museum at Yais university, starting out with a gift of \$150,000, has now a new building costing over \$900,000 and a floor space or about 75,000 feet. It is aiso primarily a research museum, but is now co-operating with tho schools of New Haven and of Connecticut and soon is to have another building wholly devoted to a cl.lidren's museum.

Million-Dollar Museum Urged "The University of Texas needs a natural history museum building costing about \$1,000,000 and so designed that additions can be built to it as time requres. A museum, like a library, constantly grows through new accessions and but little if its materials can be thrown away or is lost through the year of time. List us hope that the people of the great state of Texas will see to it that such a building will be foliated over and over again that the lovers of nature will do their share i building up the collections, while varous individuals of means wil come forward with an endowment to stimulate r

(harch 1-1926 handas.

GEOLOGIST TO LECTURE

Professor Charles Schuchert of Yale university faculty and one of the leading geologists of the world, who is a visiting professor at the University of Texas during the winter term, will deliver a series of five illustrated lectures on the history of the earth, during the first week of March, Dr. E. H. Sellards, associate director of the bureau of economic geology, announced Wednesday.

In his lectures, Professor Schuchert will trace development of the earth through the peopling of the lands, the age of glant reptiles, to the dawning of the present scenery and life. The lectures will be delivered in room five of K hall at 7:30 o'clock on the nights of March 1, 3, 4, 5 and 8.

SPEAKS ON NIAGARA

Niagara Falls is receding up the river at the rate of five miles per year and soon newly weds in Chicago will have to pay less railroad fare to make the honeymoon trip, according of Prof. Charles Schuchert of the Yal euniversity faculty, who delivered the first of five lectures the delivered the first of five lectures are the second to the second the second utres on the history of the earth in K hall on the University of Texas campus Monday night,

Professor Schuchert told of the wearing away of the Niagara cliff to iliustrate the general wearing of the earth's surface by water. His subject of the first lecture "Sculpturing the Earth's Surface with Air and Water." Professor Schuchert will speak again tonight at 7:30 in the same building on the campus. His lectures are

trated.

march 1 19th

YALE EDUCATOR HEARD IN TALK

Dr. Charles Schuchert Traces Development of Geology.

"Nature works in rythms and in circles, whether her immediate task be production of river or mountain,' declared Dr. Charles Schuchert, visiting professor of geology at the University of Texas, in a lecture on "The Coming and Going of Seas and Mountains," declared Wednesday night on the university campus. Dr. Schuchert is professor emeritus of paleontology at Yale university.

"The rain is born of the ocean, and to the ocsan it returns with the spoils of the land. It is now known that the oceans have spread periodically and more or less widely over the North American continent at least 20 times," Dr. Schuchert said,

He traced the development of sedimentary land waste brought down by rivers forming deltas and marine deposits into solid beds of rock. This is shown by the deita of the Mississippi river, which began to form about 38 miles north of Cairo, Ill., back in medisval times, according to Dr. Schuchert. Since then it has gradually built itself out into the gulf for 1100 miles, he said.

What had iong been a mystery to geologists-the movement of the earth locally up and down-Dr. Schuchert oxpialned was formerly thought due to the cooling of the earth and its consequent shrinking from time to time, is now explained by the lately discovered radioactiv-

lty of rocks.

The third lecture of this series will be given on Thursday evening, March 4, at 7:30 if K hall.

march 3

HOW OLD IS MOTHER EARTH

March 4 1976

Geologists Estimate at Five Million Years.

No more than five million years were required for formation of the geologic processes which are recorded in the rocks of the earth, Professor Charles Schuchert of Yale university said in estimating the age of the earth in the third of his series of lectures on history of the world at the university

Thursday night.

The physicists, however, he said, are more liberal in their estimates and on the basis of the radioactivity of minerals would allow twice or more than twice that amount. Time estimates are made by the geologists, Professor Schuchert stated, in several different ways. One method is the amount and rate of accumulation of salts in ocean. Another is the time required in the accumulation of thousands of feet of such rocks as limestones, shales and sandstones. Still other partial estimates are made from the retreat of waterfalls. The waterfalls, however, are temporary features and can serve only in estimating short periods of time. The wear of the mountains and the quantity of sediments carried from them afford partial estimates. wear down a great range of mountains such as the Appalachians, he stated, requires probably not less than fifteen million years.

The next lecture of the series will be delivered tonight on the great reptiles of the medieval world. The lectures are given in K hall at 7:30 p. m., and are open to the public.

= 500,000,000

Dr. Charles Schuchert Traces Rise of Dinosaur.

waters were fish-like reptiles air were great dragons with dinosaurs, "terrible reptiles," held great size; while on the land the panse of wing of 25 feet; in the held possession of the earth; (in the reptiles. During that era reptiles was pre-eminently the heyday of ture at the university Friday night, world's history, he stated in his lecgreat reptiles of the medieval among the characteristics of Professor Charles Schuchert, mentality." These, according of flesh, brute strength and pounds of brains to 76,000 pounds nothing to fear but themselves, two "Animated citadels of flesh with The medieval time in the

The dinosaurs, according to Professor Schuchert, include the most
extraordinary animals that the
world has seen and the largest land
animals that have lived. One of
these called gigantosaurus, "gigantic saurian," has a length of
feet, 36 feet of which is neck. Another, brontosaurus, "thundering

weighed about 37 tons and required a daily ration of probably 700 pounds. Among the vegetable feeders were some having no more than one pound of brain to 80,000 pounds of flesh, or "cnough sense to cat when hungry."

Traces Reign of Dinosaur.

The disappearance of the dinosaurs from the earth coincides with the great mountain-making period which gave rise to our rocky mountain system. They occupied the whole of medieval time. "Their career," says Professor Schuchert, "was not brief and is comparable in majestic rise, slow culmination and dramatic fall to the great nations of antiquity." In the latter part of the reign of reptiles the mammals made their appearance, at first few in number and small in size, but representing an immense advance in brain capacity.

The next and final lecture of the series, on "The History of the World," will be given in K hall at 7:30 p. m., Monday, March 8. Professor Schuchert's subject will be "The Dawning of Fresent Scenery and Life," The lecture will be open to the general public.

mark 5

DAWN OF THE RECENT

Prof. Charles Schuchert Continues Lectures on History of Earth.

"The Dawn of the Recent" was traced by Prof. Charles Schuchert in the last lecture on the history of the earth given at the University of

Texas Monday night.

The great reptiles of the medieval world disappeared with the changed conditions accompanying the making of the Rocky mountains in North America. Upon this disappearance of the reptiles the mammals, at first small and few in number, took possession of the land. The most notable characteristic of the mammals, according to Professor Schuchert, was increased brain power and increased care of the young. With the disappearance of the great reptiles the spread and increase of mammals over the earth was rapid.

The dawn of civilization is placed by Schuchert approximately 18,000 years BC in Asia Minor, Arabia and Persia. The city of Susa, Persia, apparently goes back to 1600 BC.

apparently goes back to 1600 BC.

"In the pilocene, man in England already knew how to kindle fire and the Neanderthal race buried their dead with their implements, paints and ornaments, showing the dawn of some religious feeling," Professor Schuchert said. "Man's mentality now dominates the organic world and bids the force of nature to his work. However, his further progress is dependent upon himself, depending upon whether he will learn to control himself for the benefit of human society. Man's first duty is service to mankind," he said in closing.

(March 8-1926 Had the largest audience, about 400. Commy trem Pres ident Oflawn and orife, Inf. bellands and wife, Prof Peace, Prof. Cumingham and orife, Decen Starper (whose wife did not attend me of Fen). about 1/4 of audimee orne student, rest citizens. all mere very afforesi ative. Mr Gruber, mechanicia , he universit run the lantern, and he did well, The lectures feat well prote popularity of the hood when puttished.

March 12-1926. Friday

On bedresdey evening of are the last ber two and gester day at 28. Mr. ore had the find exam. I refan with a class fat least story whom most orace the visitors, Then we settled down to 30 men and finally 12 were testing the word in course towards a degree. Of these of the family oracle of B or man. One had a and another D. About 6 f the over have promise of making oil feligits since none have any other contition. At moon I handed in my ments and report, and or the contract is closed for which Lam to get \$ 1800.

ours-We'd better get to terracing East Texans have perpetrated upon up sucker ages and aeons ago had universe would have been a blowed ish. Any man's earth in the whole doubt whether it was here when its virgin soil wash away and the Washington was whipping the Britans have abused the earth by letting precious fields get all gulleyed-up, we when we observe how some East Texold; but if the Bible didn't tell us t been subjected to the abuses we that, we wouldn't believe it. In fact, quoted a Yale professor as being able ,925 years, one month and port. The earth is today years old. We don't believe either reto prove that the earth is 371,000,000 report in the papers a few weeks ago earth is 1,500,000,000 years old; and 11 days

March 13-1926 Patenday, Custini. This afternoon Illand troll me to see the offen fact of Edwards limetime. First to a quary in west austin, then to Deep Eddy Bathing Port (a sittly summer resort), then by the hij Dam on the Colorado Riva, and finally to reformes along the river. hearf are that ISN are (monopleura's and true heart wohims. The Edward has one hed about 30 inch Thill composed of (milisting for aus, Beneath the fur thick and good had of quary limetres are thennes had and at the have of their one red extension exponed was sen cracked long where. Therefore the lager was expresed to he air. The Miliolina hed also petter of a gellark insteres, mas in han, angular and of to 4 miles lay and an inch thet; trone we of an intraformational nature, showing that these waters rece very shallow. March 14-1926. Sunday. Custin Packed my frint and arranged lantern blids In the 3 lections at the agricultural and Mechanical College. Lete afternoon mit bellaces called on Prevident and Mis Aflawn.

March 16 1926 Tuesday. Custin. Bot of at 6 a. m. and with Pafin Whitney and Mr. King was of in the Unix. can at 7 an m. To be gone all day to on the Blen Rose of southern Blanco and north-central Comal country. Crosed the Colorado River and then S.W. to Cedar halles and Diffing Horing (Hays Co.?). Then ore fassel Lone (man but and the Twin Listus not. These are typical Butter. Then we crossed the Blanco River and on the south hand ovent into a German formers land to see a neef of rudistids (Schily oder lits) all are carbonate of lime pseudomorphs; elongate Fent shells uf to 8 inches long and uf to 2/2 inches in diamete. Something like this word The walls are very thick and fluted and to come filed beneath the body showtu with emcare floors. Le layer is 2 to 3 feet tiere fulled with the sheets hat hardly that enough to wall is more rock than doubt carry, whe hours in at the regards On the olfre down to Blanco River, near the have of the Blin Rose collected ome flettened but you Porregtis. Leaving the Berman farmers home me began Alleting at atrut 140 fut above the hose of the Sten Pac in ling clay hos, about 2 mils 1. b. of the

riva. First in a horizin mit I alenia and heart wrchins. Then farther on in Lowa teds a tiralre fore with heart wiching of one had the time many of there whini could have been Meeted. Then turned north and mains look to the south side of the Buadalupe Riva where true is a hif cliff the love Hen Rose, How ocen thirth limitimes among hale-ling to gones und one of these teds son more ful thick weathery a hight red is dul filled mit Softhy redoulity. That a fur paperest othered gastiford. about 3 miles weeky Itancrod, Comal Crusty 楠 in a three clay had affected a very laye ofrees of Proteeling - the hat shaped from as get un desoity. · Ut 3 P.M. I regan to rain and no had to quit effecting. The was for many mils were very Sliffey, and the great majority of them botrom Diffing of Many and Dan marcos ony poor. Then the enjoine of the can leaded gas all day and and from git had ache.

PROFESSOR SCHUCHERT WILL LECTURE HERE

Prof. Charles E. Schuchert, curator of the Peabody Museum at Yale University, and professor emeritus of College over March 18, 19, 20, and 21, paleontology, will be here at A. and M and will give several lectures on geology and related topics.

Prof. Schuchert has been carrying on certain research studies in the paleogeography of Texas, and is completing a course of lectures at the State University at Austin. The people of Texas are to be congratulated on the privilege of interesting and entertaining a man of Prof. Schuchert's attainments, and both the University and A. and M. College are fortunate to secure a place on his busy program.

Details of Prof. Schuchert's lectures will be announced later, but the following topics have been suggested: Animals, Historical Geology and Research in Science. In addition, to the above, it is hoped that Prof. Schuchert will be able to address all the engineering students on such a topic as "Geology and Engineering" and to meet one or two classes in Geology. Prof. Schuchert has numerous slides to use in connection with his addresses, and all the Campus and Bryan people are cordially invited to attend these lectures.

JAMES H. HANCE, head, Geology Department

College Station, Texas. Left Clustin Thursday morning at 11 on the diterna timal hear northern R.R. for talley Justini were to Langed . to go last to College Station which is smiles east of Bryan I county seat. bot clillige at 2000 m. Here Pifonn Hance, mot me and tird me to no hotel-affieland. Than inter rived to the Man if he Willer at Lines and 4P.M. ralled on the President (Mr. Halton. Wit & P.M. gave the first of true between, but to lautern was or paint that much is of my lecture was inepetire. Triday morning opole or a half how to stan a, 61 students, and tran visited and interviewed the resty the day. let 80.M gare the second lecture and now the Partin worked well. Prof. Ball (hilly) is a extector of Congre is reterrates and more especially I leaves and in which he gets some help from Bery. Many , his Acrimens are fire. The ralled on Poll. Francia (testinarian) who has a remarkably ground orllection of Mirere and inagen manners from round strate this faity Tixas, nitrocideous, twoms, camelo and horses atomid. One fine horse estall, Jav and one ley fin a well, Saturday morning at 10 gurs the first lecture to a jamel undience in the laye tection hall of the figures hilding. Then riseled around all day. The a. a. M. College das 30,00 news and 2400 students under Dictitary Aciciplin - a good nothod Itraining young men.

Lunday morning dard with Leary oknows and bunda and light ring. Dame earl Dater day norming. Titered to Prof. Whites talk on Calvin and Intall respect for hem as a reformer. Then attended he cho and I am atout 1000 students much trobunch in military fashion. Ital denna at Itunes home. Chanday (march 22-1926) resited with stones and at 12.10 down of for Fort moth when I am ind with 730. Puty at Sakes itstel.

President tralton.

Grany College Profeson Face Stratoriang.

Drany Much Engineering Prip Botton

Prip. White | Economies)

Del On Rese (Rider) in brid last an Prof. O. M. Ball (Billray) was front Mart and to rut. froil nammat. The commercian are as have then would relations most statem africa, how, a ran, and inthem ridea, his is different por ace my radia one mother Prediterranean of inities. Lee the tre little makes on which I noted some of there facts; will flace them later on my police

Fort Borth, March 23-1926 Tuesday. Had a cat take me four miles S. E. to Tuxas Christian University, and first work saule borth and than Proform It. an. Winten. Spent the morning talky over the hordine formation as a represent one. Or first Sould not one it or two offer a shele of tecame clearer hay the sest Tereas Critacions was a stallar sea operading north in Trinite time and No maining a stallar sen during Tredericks by time, Lee the thetry the dinnaun tidals from at a value River Tixas. Then tornes later handits to a subjiding and Lesan along the Red River rejim that overed Grint in the representational force of sea, It is the Ir hat the older strata, in rodling are to the south and overt and he owing to loga to the The latest harkita = Buda in Pracor in is age while he brothing in Communium. How con the ditt Sto fin Pry. Killian ; Grentle Unit. France the first hedo of the Life Bordine me Uphen Cula (Juraian), that is a break (suffered lite short intrenit and). Francisco This fift took to town in the Eace he is to read this week at he a. C. P. t. In the action or a link and torth trell me ofour

23 miles (A.E. y Fort is with to see and affect from The With Parkita. We began in the Olintera has I the mainstrut. To main trois me the K. macroning days, regular toy have into the del Ris godually wto the Diedda line state, my their inyola limiting also reflicte with a some ryllars. This trealit into he E. of the main would be to fater 10 miles forth fatrit 1/2 oriely and breat land Ind, le NE, y Roanske. I andrive tall to Rear to and tend & E. about 1/self or miles to see the whole of the contribution from how is a thick to made up of parce till from from , a sort of beach detritions. Beneath are in In Budde stock, not to so li. Sort a li sort in hauteless, some amounties and timbers, work it is truly fire) and a life of much on the ment preseration, all is to be of just - me -(I liler under, tosils and Sortletes today I've lacute Dintono Lome 's are is in 11 and spend the evening. Le T. C. M. sul moder overt. Est lo Bakers Hotel at o . origt troll me is his own to be noted.

Lallas, Tixas, irrdres day march 24-1926 SA to the Baker Attel, Nallas, at 10. V. - and lacted on the 131h floor. Fort things lasy, In the evening the gerlainto beyon to arrive. Dallas (march 25-26-27-1926 This morning the first girt and Hocking in at a The very great rate and before moon to hotel still. Six. The meetings start in fairly broughly and all gres smorthy. Onet dogen and dogen of prints, but - Ilm unfor her ate of a commer remember the gray people, and they are work tite recognized as remembered. Thiday afternoon there was no sersin, Stad a long talk on't Protonn Palmer. Celipsinia 为人 Trially Mr. Leggl counted to Know if & mud conside 3-4 meds emsultation regarding to mis. Penn. and formian of dansas, Oblohora, and Texas. He though his company the Leen Co. rould day me of soos for my help. This work is to be done within next it ever him a armay 1927. Friday evening Plummer gare a denner Palentelopial droicts in the U. a. P. a. De all pit behind to flan onit a view Toronds a pullication.

Saturday morning stead to obuse on the atternoon to a con a section on micropolenthey will to over, claus as as Chairman. Finally Potonson it have took a for the forther policy of oregite is now as hand; 12, 111. Con il crey one was a pred that it was he most duces. ful meeting even held of the societ, this was the desenth ununal meeting. In the marning then was alection of forces, Juman of Howston set 184 rotes and my siend Inc Cog set 193 (deeted), for President. In Oice President Berde sor 160 and 217 (electric). In Secretary-Treasurer Fit Curin for 218 (elected) and Deeder 155. It rose did not ream for relection and or John & Rich mas elected as exists.

Dallas, March 28-1926 Unix. Treas, sitt Dr. Line dale as changer, NJO. was deady to start at 7.30 for Custini. Achare Visky Inten. 216 miles togo and the day is doubt and of. Iron after starting it rained enough to make the and notes slipping, and one some three news in the May. ditale of the small. From Dallas ore for South To Inidisthian, mardiner, Staven, best to baco. Has are had lunch at 12.15 and to 18. M. noe are of again to Temple and at 3:15 are are at the extension road metal quaries , To Santa Fe R. R. atm 1 1/2 miles h. W. of Baylor College for first at Belton. In came have to see the midisted lager at he have of the guary. It's not ruf, tuta ware-moded conquira orains of a rudioted like Jehtz ocharerlitz, Shad no fammer and time was star or could make no good collection. Have enough to show the voting the formil. a close associated lagar rather shall had many schinnis, The Capring-like Thelis come, from a gove atout 10 fax higher. Fully Wfut of the guary has more or lend here underticle. at I A. M. me ace, to watertoon, transferred, and wisten where I aritual at & P.M.

austin, march 29-1926 Betry ready to for to but Texus. Danlday. austin (march 30, 1926. Tuesday. It themdered and rained heavily about mignift, and this anormy the world a cold. The morning fapus have storms throughout he otate mit 7/2 wich form at lemarille. Hellards telepaphed Beede at I am lengelo atout roads, and the refly was that they are had. Then emoluded that me could not go for at least two days, Tole-Rothed Baler at Structure and Regte at Celpine. In the evening listered to Keiths seemed lecture on Topopoly in relation to earth onormant; He has atad edd, and or Jundustred but little. Kith es got his edd at Dalles, Just Idid, but the Doctor here at lusting has about driven it met of austin March 31-1926. Hednesday Conther fine and evol day. on the afternoon oan bellands, and he said Le orneld call for one at 9.30 Tomorrow morning to start for the marether eventy.

austin, april 1-1926. Thursday The days fire and at 10.30 a.M. we are of on hest Twas in the can of he Buran of Economic Soulogy Exercited by Dr. E. St. Sellands. De gr directly west from Custin to Dripping Springs, formation City to Fredericks buy. Here we arrived at 18. M. harry Gome 83 miles. Had lunch and at 1.30 me turn north and a little most, and soon get into the hasal Comanchen trathas much of red heds. Then me get down into the fasing Arah, Central Universal area and from Cambrian sandstons lukel and stales and then a long reach of steetly upters ned , The Part saddle bokist and red panels. If is 34 mils to haven, which or true to a ords and oron one upon lin. leotore a narrow outling the Comarcheau, and then were Helm then ded ded Cambrian - Orderician and frially Ponn. , Li Afranian to Bradey which's 27 miles h. of mosm. From Brade me for almost directly out and orne for m-he Comandoan Leve a series from Eder and of and class with calcavers that, a tree. For his iter some Cutahot te MI le ous and finally Remian on which fan Coyclo is trutt. mendy It is atom't Edmils from Brady to Van lengel o, and atout 230 mils pin Questin. Put up of Jan angelis Istel. Soffer at 6.15 P. M. letrol fire mily 1. of Frederickstry are had one four rier acros the basin of the Certif Mineraftered

It is a wide shallow tasin with rathiers of parite dills and fromded on south and west to a quette I commonchian dells afor hundred fat high. The flow of the Laoin is Pacillo addle ochiet out to red craisely creatalling granites and upon while are break transfer en en i Mon Court an, Ca . 75-Ordinician port Com anchea. In faces to Palegries stand steeply i as sule treglie in condulations but dill is to the heard MVI. Cellands the doming of he mireral Lelt troll ace after the Boul and deemingly rout on with me N .. Time into the older Strann, The Pre. Cam ian Arels Pape (Folia) makes (11, onl , and Iellands says that ome ochists only dup mall Lane rerealed Radiflaria. Lord into the rate to see if the are actually Roditalis. Daw some granites bedded-like cutting wohish at an angle of atout 44 W-depres. I've Cimanohean lobs against be to ul Mintral Belt and finally extend its
There is no sich or quarta around the most will MIN 11 the Mariner of Belt

San Angelo- Celline, april 2-1926 Left Ian Unsclo at 7.30 U.M. and faned wer Opmian to a Comanchean mesa that begins mit somb and then the ling Frederick hug. The thickness is I small. For the west is more Permian. Panel through theravord - Barnhart or the Crient R. R. to By Lake. The Bij wake oil field is about 14 miles farther met. This field has discovered to a wild a at, and in 1975 the weedown atmit to wills; now there are go. The field is about 3 square miles and is new gilding 30,000 taniles daily, try as present the quater producing field in on Tixas. The wills are down between 2900 and 3100 fat Ortopis 300 il Com anokom, 300 f Trianic and the roll is red tell suffered grown most the ord in his and rollis. One well is down bood fort and is believed to be still a the Permian; then are Hard shales below the oil gree. Cellards visited with Freezes for a hours, had lunch Leve. In they region the formed dip of Permian is to the n.W. The ril dome has a rise of atrul 100 feet out a faithe western of he ad a stipe easternine. Thrusting from to E. See Sell ands Japan som tite pullished in a. a. P. Co. Bulletini. Craned Piers River at 1.35 P.M. The river is incided about rotate behave about 30 milesti for to Fort Stroke. tin. Am have are many outlust Comanchean

= mesax Orfarming, ref ran shing and vare but is and common The Pand ocape is non Times. Collected for an from lither in the top y the Frederice try a took teds of broshita at some mile mease east for Stroketin! be the frish. at 4.35 P.M. Joon after leaving First Stirl in me hegin in be the madera Outs, domed up Emica Thata in which has been mon the Com alche my tin thought to have an your man below hat to me has our it, and all the oblata as in our, and is. The Cret, is w. للايم turned and then is a seriou , that sailt, in en es In all aroundi ar For streator here is a pext oning - comme the spring that pill daily borceo, our sallows of water and inerates along 10000 complete the are bollowing the city of the color 44 miles W. of Ft Stroater and west of Horey we collect a fair more Commanche trins, and same kny as at sommile here. But In liefing at . . in, and Ray Baken had anired. Lete, Buldirin, Blandard and it's Suppose was deposited a fot clearer notions atout it

[[3820/ start] Celpine Saturday Cipil 3-1926 Started out (7 golgists) at 8.20 G.M. for marathan (30 mils E.) and then to a flace 3 mils south of Sap. tack which is 25.6 miles A. E. of marathon, arrived at 10.10 and began collecting in three gones of the upturned Line Saptank. The section as measured here to Blanchard and Baldwin for the Marland Cr. 5 as follows.
Comanchean Cretaceous at ore. Baptant in an anticline. in the section begins at the fore. I neat les confirmites
in Li. and so comple with press (i. and other and some sand. Thickness variable 10- 300'. Du april 6 for more detail dark pay whale 120' mits a louse 3tr 6" of Lomatite ematinis. Producties gree (see the 3 pieces). David gay shale mist is m encutions, go fat. Dark home and dark pay Fresuling li. 18 fat for the the Hand Calcarens sandstre ledge mit froms, but to colhetim, Besides tone offeeled van Charteles millibracen Agring your multatlenuta, My Bellevo/han cabex. Sandotines 6'3" Greenish shalo 20' Dark gray le 1' (het exposed 25' Li 1', Hale 4." Fusulina li and th. 6' landstore! may shale g' Affarment finil gove = 16 feet thick. Then li(1') Stale (3') n(1) and soll sandston 4'

hang small and weather onth two loves tets of and lie on lown found. That notine to allest it. Kepte has a lot of it and if necessary fet him to ran one a collect in. The frails ohin deally that these Times lap. tank shata ener The regulation Pennoghranian and only the earlier time wither, and certainly nevat all of the Bend- morrow-trapanicate time. as I . 1 ou our Chnils mostly to be nother the Circinecisianus Jam romdury of the time mus he took Cary in the certains as later than tain. The toldis of the Tes nus- Suite - Her mand strata true file ay falls in middle dennog tran in this he late most. at be water is to the Upon Baptant Clanchard says cannot be determined at to 3 Mace since then is now here my and the Per- to later later days de any the condustration that the watership and the mice. Comman series to de and son its and then the lime series, but the event of and toto mil . nav(Prised 4) The mitted south rest to best a whole or all collected and included the surface of the land included the both and included the surface of the land included the surface of the land included the surface of the land included the land included the land in the lapter saturation in the lapter saturati the states. Firt int , and other Keste said Le had at least to operines of a unity. Ithailed and ruined at 40 m. and me in. Under to go to all to life inc. to he almost reality in the arathon to are it one turns in at 116 mily only Incuration; bearing will be so

Celpine, Sem dag Cepril 4, 936 tostred east to 4 miles west of Charathon and frem on trails north to the first Permian escarprais troflect Temard fmis. This place is atmit strills S.W. of Iron Out. Or wheeled all the morn is 500 for above the Lase of the Lemand (there is no then dere) in a first orgotalline line other trailed the fre (50) and marded in the Oltuda Luadrangle. In alimiting wit to this himsotore, one saw money grass of limiting all of the himsotore and confirmate. as a rule the bettles are tran /2 mich across, but tran are also any wear bieca of limiting of all signs tothrow up to a trut's feet by me fier transfortation in which themes no brilence. Here is afor much fine sand in there Then mitered farther A. of the side of a fortal listere another of the comes in from the W. and than weaked about half mile to the place marked (reality (17) on the altuda Ruadiangle. From one fruid a limesting full of animante and are collected many. These Ledo Soft on a colore the base, the Lemand. There aremovits recur in several gomes trough about 100 feet of stata und on the top of the Lice we

found another great at und uce fidicers amminutes with Arllew Deplatcham ters of Collected alt of trem and one is a very time large one. Who for a Phicketheria of this higher had I marted (57a). anywhore to the S. The Len and rests on the less in series and or there is no Suptante no bortfeam here. The bond gres onthe the S.P. & tied rependenced of Te Tessey. Therefore the tidric theirs out S. but is still present in the wy and ? the same in true of the Silliam, and note of the great formations are prosent in the the the Ryin. Good rill the Permian of the northern Han het, nearly 121000 to thick, thens down to less tran 6000 form the Shatter Region (Form , I am , "). a help of tidrio mit mis our high the S.P. Rif. at 11 miles lasty alfine, be wellerle & here not another time. Did or total of me a single, mil. Farther root a for miles A the Sociale; and Pot it The Commandean dips one W. In the Lulling Cil fild & eres then a well down to been and in drilley, bootest with the Packsaddle sohirt.

In the Ititario the Terrer) is was prour and folded with the same general to (S.W.) as in the Slan M5. Porus alor got Vilurian Leve. the Hafter Region Woden gives a thickness of 1430 fut = Cilsto series, Brant Blanchard Days that deposition is continuous bace. Suffred Pennoglyanian gres untrolen into the Permian. Only lithertopic brook for Pennoghranian; hasal Had shales mit then hels if quartite trut while; here in the west the folding is then, it It dave died not. It. c. I has seen but me crinoid chumal in the Kimple li. Or other prins the them springe opicules are Known in The Wimple. first may standard horizonthe this from alim is to be I disretarded. Blandad sago Auco les telas de Teras was le, that has "Charter Telow" pristly once Penn. another Permian, Delawas - bond. Capitan -Vidreo, and the Little Les = Billiam and Tenog

To this breality one goes on pm marathon to) Softand and turns in at the small ranch house mitt a mind-mill had is 16.1 miles out from Granathm. Ore gres up to a mile evec that gras up to ke held, and then M. E. for len tran /2 mile to to a onth water sliping here that is the juit me Orest of a tank. This Your Softank have resal

Celpine, mindag up 10-1926 Started our at 8.15 l. M. for the animaite loc. in the letter Battank 5 miles h. E. of Dorthe amb. The in to fur telin the seemed thick lines me gone Battank, the at this place the upper 200 feets are thought not to be present at hothermy. The sietimber is smilly as follows. (upon thick li. apparent errodul ensur Ditter Ciard about 200' Love thield Li 201 (Imm mite of me 60 feet) 7 Fifty li. and 130' This am write 100, is for frails promises attacky hill in others tase out seem Quadrangle or artled 4752 L hom marathon Hen started to sattack. When out 23, 4ans, tilled Too ment of in, Here I saw the same costilled that has believed from mile W. of the same on the S. P. P. C. The Tisnus here strilles 5.60E, and dipo 40'S.W. Oralging the Holmus or an Timetine stries that La, Lover Saptante foris

The Treality of Jaturday is 2 miles to E. Or 3 miles \$. 1 Saptable but he small difform things collected on iden-tipication. This from Saptanklistides S. 60W and dip 100 S.E. The forcers is the regulation Pln, optranian me collected last Jaten dec.
The read tren pres to far the north over
folded Tesnus. At 24,4 miles of per marather are again
folded Tesnus. At 24,4 miles of per gellowish imome limestine and states of the Lower Laptank tras stand al more vertical. To a stile S. brow Lee the pris; the Chartets in a sort of rup reem april 200 of al love time to face a el etil. These words are overlain by limstone flows that tand. as if of Chonets most hus me trentical Love Bat-tand. as if of Chonets most And in trentiate magic to lovery ones is to be start or sept if that he Tesnus mass tolded better the regulation of an area come in. Then the ? was folded and ended tope The Appen Santank sea came in . (This rive was late on complety stought) Tinally collected; at me daline, restfor post not Fusulina and John gerina. hearfall, The home , here For crarse anylongiste and some fine and faither h.C. affirms to ranioh, the confirmation for the Commoder mittall link of sufremed to well is a ded petter.

Grant Blanchind Duys that helder did not get the ammonites at droll camp in the drolf. count formation but in the When Saptant, the error was due to helden thinking there was an eroim hole in the Saptant ora say in which the rolf camp row deposited. This is an error. They recent diotinety below the based conformate of the Briteamp. Ime days later I was able to see clearly tray noden was miotaken, and all of his 12 ofcer of amornily are true for som. that hadden is about correct (DGC, 1976). The tank at Saptank is 25.6 out from Incua Tim

When It rack to austin and looked attre theeting of he Bureau I saw that he deris affection, come for Jule 1/2 mile h. and 11-11:11. I the Fack. Modern get many of econ and among them are some n. of. but of parent Beede struct out many the rome. Beede if sums to me majorifies small valus. Even though there are mist, will are around (for Kind. The tourn is unmistallaty Server (rance.

alpine, april 6-1,26 Tuesday Started at 8.10 for Bottank (300 milsto Mara. then and tren sv.6 to the tank). I truid to collect
Upon Baptank all the morning and fit about 6 specimens, Failed to jind Middlens grown localities, her
official party Hombellaids, Baker and Idanchand started E. Tr make out to structural relations between the lepter Sal. tank and the form Saptand. The frish collected to the form of the face a water of the face a water of the land of the form of the land of the form of the land one will make the land one will make the land one will make the land of the land of the land of the well would at it a sain to the land of the land that fred is no treas between the Lewer and for softant. as ore walked farther east to where the Palegros what of o bere at the alike are ain's restrict, and the short and the shall be a shall be and the state of the alice are ain's restrict, and the short state of the shall be to the shall be the stand read at right anyloss. is therefore distincted and and into a funtle, to me into a few softands in the particular to me the affect to the natural foresand onto the earlern and in over thrust (Is the hiver,) conditions. This is took Sea is a little ralley headed by a great gallow patch of Lover Septent state Faut and Thrusky 1. AWA

Then examined the Lown aftank seen on Datunday. Before getting to the section are lorded at a emplomenate means that may be havalto the Digs of to a fort long, nounded to suta what. There li. reminded me of the Orderician. Arme hiraculite in angular pries also present. One pettle had from frints, a small Tenfalle a and piers of trildites, remirding me of life is lijardian. Vian fortled at the great only or it is in the me Baptank trought by Blanchard To re "two al" Battaulle How the Hooks are all laye many Tor futneron and nearface of crinidal lives men the one dor the friend, and as pettles got the Enals, lecending This constructe is a lind of intraformation of Englowerate some all the bulders and Lower Saltan A Ting, Du to frish and on all trolder. This in most are must have formed of he take i clip, and to close race from bastont -10 news "unemformity sien is day in too al Englanate a cell.

be an all now vatisfied that be not witure oraging I he Colon Outs from Maccapta Teonis. Diriple time, but he age of the Teonus is neget Unum. Then after a trie of eres in he area M was invaded by the Pennsylvania sea y about 1,16 Cangon time and continued untriken throughout to aptund the which means to alone of liver. W time. Both the time and Appr Bay Van's are folded alike, though the latter appears to be son folded. Mad the relation , the orallying bothi. Camp is is not jet clear faither tran that it affects to be empore able though soperated by a The same roaded disinal uncar formity. Therefore the Deemed Irlder may be por tipe suptant and it weethe And Permian (bitatty at , estere of traver, 加 I, ung every trenis a marked treate tetreen a li the haptand and the Periodes. In ome Hucas Mi bear in Wilfcamp and in others live in the Ad is cerail emes to very in the Saptante. To-HA monny me will learn mue atrib the assend frien Time of DAMAGE I attain we concluded that Tesnus-Limple in profgent ally = he pead Loon Debland, and that seel were felded Tope the al trolar of to Penn = by Exptant = Cisor Time]



alfine, 2/21/7-1006 But. Spent he day 3-4 miles W. of Marathan to collect finds out of the "Tes nes", and all that me saw showed that this Ilsnus = Saftand and an oul Instatelist he inhote y he saptant. First Educted along the alping - Marathan Doad shoul 3/2 miles Is of harathan. The sheta me well ex-Confrond war of freen states inte foreginn then teds of limetime harry the mis, but in few more on the Then somed country to the D. P. R. Cut at will ost 580. How the strata are verticist, shales, con timerata both for fries strife convertes and Fredling of linding On the south dumps of the VEO ante Dort out there is a limestone thron with which Handard sucted In one once finis, dete is said to have many more This lorse Hord dame my the nails ray cut. Then went to the hilf a trut 1/8 mile faither 5.44 for mule prives to see the unemformity disorred by me tirfian are lefter much mort of all me conduded that this computar uncontronit is due To constituting and thrusting producing an apparent uncon-travit. In the restrict strata tereall the uncon-

formit of Tresuling and Fertile a. In the cri-Howe me dowth that the proof out if the love three in to nailway dumy is from the some lingme. Atrike of anticline S. NO W. From Starpis Ranch. Strille of I man out ical strata herealt the thenen primit, is S. Hv. W. The upper Hat Iging limestime and samuestines dy forts to n. total east end of help they stand vertical; in IN oids of hier they descend for more gently ? Iden tried be find brealites faither out to he noth A Fort Pina, be sainf (horse-Culity and Ordivician charts, Englisher intraponational) and limetime. Some here il-Hop ables sufferting Trentm. Then come out of a and mitered With Dieie Rand to the hit the road and her again me some Freschia extindrion, Chipidomella pecai, Composita suttelita and propriet of several Pordicales ofer. Iden forked at he lidrin hereal the tonumber 11 mile E. of alline tox del no au a dingle tidric times,

Termes turns my To de north Saptank with ll Gam decided suggestions of the Africe Saftenk. It is still in the Desmian and plents of rome of the otherstoon and plents of the Teamer Double of it is another than the other of it is another the first or other of the sales in he deen's Report of the Stand on the Stand of the St The Kenil Ofeceis, as tren is no breath between Town id in and lifter saftault and as toll me grate 村 folded of follows that the three of Int. walling is after baptank time. To money we will ellect bottomp Am. frish and study the ulations of the Saptank boh. to be bolfcamp. The great healt between W J the Pennaglounian and the Permian comes in above the lipen Saptank, to what is bolfoamp? miland dul rien

Late it downed on me that the first excluded and for the live from so feet of the distributed had had for of the officers over farther E. Those lower formis are all vilicions in a sollaint weather Ci.

All the other distributed from the treather or of softin his, and may be if a higher one, in the a fault between the W place of the Court little from that have the free fire and better from that have the free free and better from that have the before is the?

Alanchard has it fireful - > Lee 1926, apparent, my 6-8'hi m + a . as a engl. is not traton of the directions as but to a interpressing it was on I mon for 167 for and in a de the holder armounts gone. They y the Galdard is a 24' to of his, herealt which are dominant ohales.

Celline april 8-1926 Thursday (notored to bolfcamp northeast of (harathon. Haire collected all morning in the army so fut of the boll-camp, portally chalf a mile north of the type I reality. Left tre can a little to the W. ed by hi of the old deep well and From walked up a cow path the hill almy the fulch first M. and tren mostly last to another turn in the salch and tim tre officite hier ethypi bordown found a good place when the limitime 見り broke of under the weather of and fully he pois. Hohmagesina, Fusuling elmylata and another Fusulina My . are common. Were for Phicth Jenia, one m. sp. t Ciliotys, Entelete, Dustedia meeti and many The foris. all is Permian in a ofect.
All of these finisher out of The love 20 futry the holfound, just above the thick tendral terminal limestine of the life Saptand. The fascil times are 6 to8 ful trial is orticl Ledded, weathers fellow and gills its finis in a silicens endition. Retwood who fait of the linestone has a limestine confirmation uncontermity, Lellands says that he holfe any ilm appears different att tiede and cuts dia prally acron diferent teds of the Saptant. In any event the. trefound dun a silevided in perint Da-



the paptand one. The time head in a considerable light and easily deparates the Permian from the Pennoglodnian. Hen contramity thee? clescrifes in moder that is 23.4 miles h.E. of marather, lellands and righter are now satisfied that while the help lists like a Sencine unconformit, get the upon li maghan its present printen due to folding and brinky tra threatings. Then I walked along the read toward Saptank to on if the "Teshies" roud any points! be friend none. at the unconfirmities the Teaners stands ruticial and on the next hill not the strata dips. Betry men the court I he hill the strata dip again n. at low angles to near the Mace or how we collected from a (hinday where tree stand restrent. 'all of the we had seen faithe last and it did not cause one to change my ideas that They Terrens in the Stan hat tomorine and prot up at might aftend = Pennoglianian. at some place to be E, mon oray to San antonio

In grow to this place me autred north in the bastank and to a place 2,5 and, 71. and ton track a fate. It was then 6 miles W to the rased Levaid mit to see the vite of Tesnus? Here the Tesnus strikes 5:10 W and gres under the Hers which is reasfall lie with pris that we asex to imposite to fil met.

be the small effection of Lingle foris.

The question herin, Is to Terrows- thing le" of the Lemand Met area the = 1 the simm and Afon Eartants. On in the Saptant another series are the Tax us Mimple: Pritate her in that me series, named Tesmus-Limple; and that the white is the castant

is equivalent to the former.

Albine, While 9, 1926, Friday bent to Lonard Int. to see the Millering tilled and more or len, cumpled Towning Juning 1. and in the traval Permian, is about 300 fut trick and to the SW. ranides in a fur miles. From 6 Wto Teorna, fter mi Lonard but h E. the Hon increases to atmix 2000 fer and has beneath it the botheans "to Permian and the lippin Saptant notte say confthing of the Lower & a trut which may not be the Tesnus-Deinfle Leins.
The Tesnus about Le mond het is sandotnes more a les fine con (mentile and afficient have no fonds. Affaired higher concentration countries a hast are also marked to the countries a trese limethres are in laye four made it a debrin of foril payments. On or of these payment are ting fice. hack into that ween to melecters of the conq forp, and Rhontiona like legidedandinas. Home m la opicules are reg Common in Cartain lagues, in Them supposedly In Com line the believed to be of the many Comple ismations by raref dres are, see a chinid Olumnal Kinch indiameter. This "Lingle le" appear, to me to Le of a shallow see bottom that



alfine, whily-1926 budges for Spent he day 3-4 miles W. of marathan to collect finds out to "Tesnus", and all that we saw should that this Ilsnes = Saptand and an all privately the ordite of the sapstand. First Educted along the alpine - Marathan Arad show 3/miles to of mantem. The shife an world ex-Empored nainfol green states with forejoin their teds of direction having the pris, Sit few more on the Then owned county to the D. P. R. R. Cut at mile of 580. Hen the strata are vertical, shales, con linerates latoul du tod of orell rounded nots) and ling suncting.
Both fine fries forifu aumerates and Fredling of tindica
On the south items of the v80 mile Int cut there is a limestre that many which Hambaul encount for one one fris. Keite is said to have many mae, This lorse threat came my the nailing cut. Then went to the hilf a trut /8 mile fatther S.W pm onle port 180 to ace the unconformit discorred by me torfrais aft. lefter much work of all me conduded that this control an uncontrolled in due To orafolding and threating producing an influent incom-travity. In the rutical strata tereath the uncon-

was continually edurated " it all he life in it, earless topos. hothing had time topos to or aturity wecesting the quality growing Their like Phonotop no and small fronds of Firetella. I saw on front allthough Fusulina "Constant Locked for and git I'am certain that the les ere of Planny (ranianaje, An informate to ace what place the Ponn. The Zelasto, but he lost of species into a little he les a septant Le Ism Met intruded i were more does ad offen to have a reclif & strike and do of The Permian strata, but his hall sall to at fint face me in improving of the in Pennoghanian Time, he is to The Blanchard of Two later in the sain Jest the Impression that thes I was men men it die chart tree is a recognitive strata ale not is time; injection, help on away is a dille of he some in a nock trap course " ~ staulto be what is sail in pollieut as if the to and relatives of is theres on; con monitain. Su for mue tir bagos ater. ->

They mitned to Roya Creek to one the Roy L Creek shales with intertraded and tra. Those exprous are southy to J. It R. not for to the S. of Daymond and to the west of the Awaculite series, And of the shales me bling free. 1 State stales onthe a recasimal Hack are of 机机 In tan me fort thick. (home are more t'an clared He THE from is the expected pur the ongo, The sand. with Stores are also greenish and weather to a fellow laplas and are in grown pin 2 to 10 feet thick. They have tits of plants some wordy impressions and others that look like charache. Both he shale. ven h and sandotres are very fine micacerus, dans nd dy ar Nogregate fries on laye pagnests of plant. Ban metned from Ataymond Stating and n.W. to the State Road where her hill side sections cost across the simple range of Lils. Here the feat man of oralers to dark what in hels WI da pm on inch of the sol trick a nac separated 打脚 to lon dominant of all failings, apparents in the Right state beautiful techniconal ling but y Ft nd 49 4 dans no finis. be also dans at least free Feels 明情 the clay that suggested a decomposed with these are in forms from 3 to 6 feet tricks, dellards too

complex of trong to the to be well regard made of Talu in art sit at te males of trem. The Tourses- Limple Derin in it looten or topical a round fact us moiden trem are. Their strend lithology durgest the motion Thomas Dinger the motion of the E. series in line wastern Trans and Saftan seras. at 30, M. we left hims Blan and al wistoring, who returned to all vice Lellands and I trem method on to Jane (49.00) finally at 8.15 are arrived at Countrale ire Staged for the nitt. It was fruit ato 1 Too on a af it whe The searcy of the Bon Pra as red all tile the the and hantit , I ome mile the Don'thy The I P. R. P. Hide. The wand down and out , this course has cort a real seem y money.

Mings Lid opical Prats M.S.) 1 tre alteda. Duach angle (Capil 11-1926). by enite bookly is of Iron mountain. Ceccord. 为城 the flace or another throughout he transition region ath cut all for dins up to the Comancheon inclusive. 1 THIN Therefore is of Post Con an chean age. Kings map ohms no old formation in contact t的情 ant he ofenite the from Anoter ay materias talus THILLY and alluvier " rank. To be hof How Dut, tog dile ent the Leonard, and Iran he had, I The ex-Treme W. of the oxect another dike out he tronand. w.14 (48%) (48%) (48%) (48%) have of there are connected with fauts. Les the the yours with are client Par Perminen. Cling diotingnishes bettreen a Love Pennogl. ranian (= Tomes and Kingle), and an After Pour. (telived Tote Saptand)," and says the town series RI, RX are separated by an "unconformit" Both San foreall the Lorand 11 the Permial to the To. and milet S.W. of 2 in het. and b of This Quadrangle ling has no Dolleamp, el was no Hen, no the terminal Billiam and Tenes, Lemend For to he and S. W. I in het. ap. pears to Their to W and firally is cally to a fault Jonils W. y din hot, at the i Cathadra (ms It's again seen 2/4 miles W. of altada, west of S.P. R.R. on James Ranch. alterda. Ufain on the the side, rule to Wand S. W. of altacla. Here nee continuous. Vidrien lawy the Per a in is hut. atme it dies a thick and or the series whose age is unlamon. It is writing to The Com a. Lean.

Comstock - Van Centonie, april 10,1936, A Rir, 30 mils E, at 830. The small Exogyna arietina stat is from souls W. of Del Ris in Nely or anti-From Mel Rioto Dan Continio it in 1610miles. mily Ling 1/4 atrak woniles W. of hvalde pre stoffed at the laye read metal bury in the Cenachera limestone of the lifen Critations. Due the lower 12 far of lie are chayed to rook mit cophalt and this from li, ted is a rord illustration Arran vil dorin looks under grand. It this lover & hat is quanted and the ver-Iging watered is striffed away. The section here Kaltack as Allars: Challe li., atmt stat.
Impersions clas 7-10 feet.
Roffalt li., atm1/12 feet. Have of things
lager true pieces. Soil atmt 2 feet Fire mile En lord de dansell a peat Rock Co. Control it is in Columna billars

In detail one Wordela Fifir and account for Orm. The plus is in the one the Bal-comes fauthing. Other plus are altered to Serpentine. Lee the sample. Daid The he harder would metal in Unesica. Sitte Im antonir at P. M. Put of at he Eurter

San Untonio, Whil 11-1926. Lunday Left to hitel at 7,30 and tran worked 大切 at the City Park mit 15 Protocial Cardon, a unique faul. The pared the pear army Porr and from 86 miles n. E. to Custin. aid The Conviced at Custin at 11 a.m. Open on or of the afternoon out Keith 1/1/1 talling our what Lows. It the evening Keith and Fealled in the Lellands, 6 Clustin Ceril 12-13, 1926 a small amount of Parting the foris and selecting Permian material od of the offections at he the som list of Saftant mis hothcan, mode selected for identification a lot, before then fru fmis. On april 13 tright mae Comunitarin froms of m Bill. Paid him \$ 3000 for the first of Comanche an foris. and his brother make me collections of Permis

foris, in the Slan armitains. Ian to write roll for him what I wait to have done. Is are faciled tradey six trees , tonis. Tren how is the hij try don't trooks and maps were were for fale. Finally tree are four additing trees of Commanche an formis collected by O. a. Brill and In all there are elevantry os to to to Express to fale (11 toxes). Philip B. Stry's brithing oran from by fale a \$300 Adolarship and in to turn up offale in the Fall. He is to Fry on ha unworded Permian Collections to ford them on fale. P. B. King will turn up in the full of 1927 at Jale. He's a very promising gettyist.

Mustin, I was; light 13-1936 Tuesday Stad Philip B. Sting to bench totalk men the Cartinifumis of the Volcan Mountains, M, Ite dolds it safest in the present to regard the 1/16 and my Tomus-Dimple series district printe Batank, u fry and the tor series separated by an corporal unconfromity. In places be finds no diriple a but ether little Limple terrall the Saftank assid can all The hul. from he explained as exodul out to be Sattuck Time. Finally the lithdogy is different, the Termes Mulga tery more sondy, on or conformation and cherty, 4 offy while the Saftant is a series of allernating shales and timestine with finis usually in Widence Shile tog me rue is alderin to The Theren-1/27 1. dirifle server He anno of no angular uncenforming between the Soft the Termer-Limble and the Latank ridue folded to the , which means at hetherey Circr time. He has at least the faces in the Ultuda Guadrange to be We and SYV y man hountain more the in sea- thingle and aptainth series fraggets. Leneath to Permian delis White in this care wear. Leonal is nation.

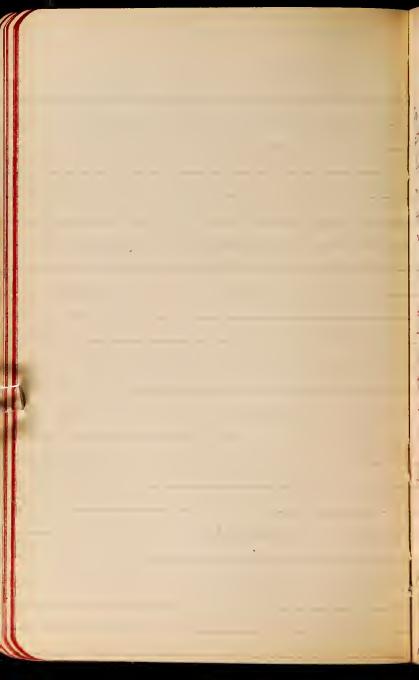
Allands well on the even has

austin, woul 15-1926 Thursday Ultinded Leiths liebure last night and tran he walked outh me to be baken Atel. Lad onie ice erigin and at 10 P.M. me said good fre. The morning of a tor up and at 11 G.M. Lellars calls for me and takes me to be debt. Just a little befor he train start Mrs Illands comes to very prod tye. We were talkey to hidden's on when the same. In Lellaid, aromes me that I rade many friends at Courten and that I helford along selling a peat deal. the day is triffer and ord remainant cort is the Stace of Tra line 1/ 67 MI Let to Dallas it J. M. Off yain at sor P.M Retired at 8.4, 19.111. En Route To Cincinnati april 16-1976 Solup at 6.20 a.M. when the train our in J.M. Orin-Down. Re day is hift, cool, and there is raidly any son tradding plant. a few fruit trees a trut times are in

Left to Band D. at noon to get to Cin, Co at 6.40 P. M.



Cincinnati, Q, Cipril 17-18-1926 When the train port of Cen. I met Emma, alice and albert at the station waiting on me. Then in altest cane to his home in hos hord. april 17. after headfast alter tork me to the Bestler Balley where Latoid , am 1/2 hours. Ime of cellent art here, his outrains to it time all , displayed books. Because of his and grand lately the oruneum locks insporation and effectiveres. Then looked around to a and 12.30 mer alfur at he Solom State when one had lanch, Then out to Boother this to talk on which whole I wante betime. His lord, I that he is bother down and as he in 62 the few though do it quite all duties, This he will do in andley and resign his fit mit the Dohile Co. Jan stal that Lehas come to this andwin era though in he sed I will lan thelp ring to anically. Then metared track to alberts april 18, Landay, Henry the deep on Emmino sink Phil's and albert families present. I Had a french divines here and finally a light suffer, Everyme induced this togait and in and your he heart. It rained hard last night and in the morning it Inmed. a little.



Cincinnati, april 19, 1976, Amolag. The day is bright hat cold - telm freezing, Cit 9 9. M. I leave altest home, and he takes one to the railway station. He was to meet me at the Silan Hotel pra lunch at noon, and I regited with 12,40 but he did no turn up. tracked to the deport, had a like to eat and the get in the train wondering at averying about what beene of albar. Fore milits before the trans pulled out he herned of, when he had been today cut on the right just by a reportante the blade slifted and a good 1/2 mickes long almost down to the tome. Whey does alter not shave himself, and why troe Trys, but he widence show that altert is from I get must. When he trans I ulled st I was als had recome with rong. has C it 4,20. Colored at 9 , M. april 20-1926

ar all white with snow and love lage in the morning light. The felt to h glitt at 9 40 a.m. Left at 10 G.M., in her taren and home

once more











YALE UNIVERSITY 3820 PEABODY MUSEUM DATE: World W NOTE BOOK 1996 PAGE La (70) Man, ht 3 1/19 13 atmit 100 fat hepla Trees Tie ite) Charl Eleo fat aline land of Landad in action C. S, and May Dales

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YALE UNIVERSITY 3820 PEABODY MUSEUM DATE: CALL WOTE BOOK 1976 Atthation locatal mexical The ation. For ditail our wite fort Lier Man his mi maps God, and Front Clare hart

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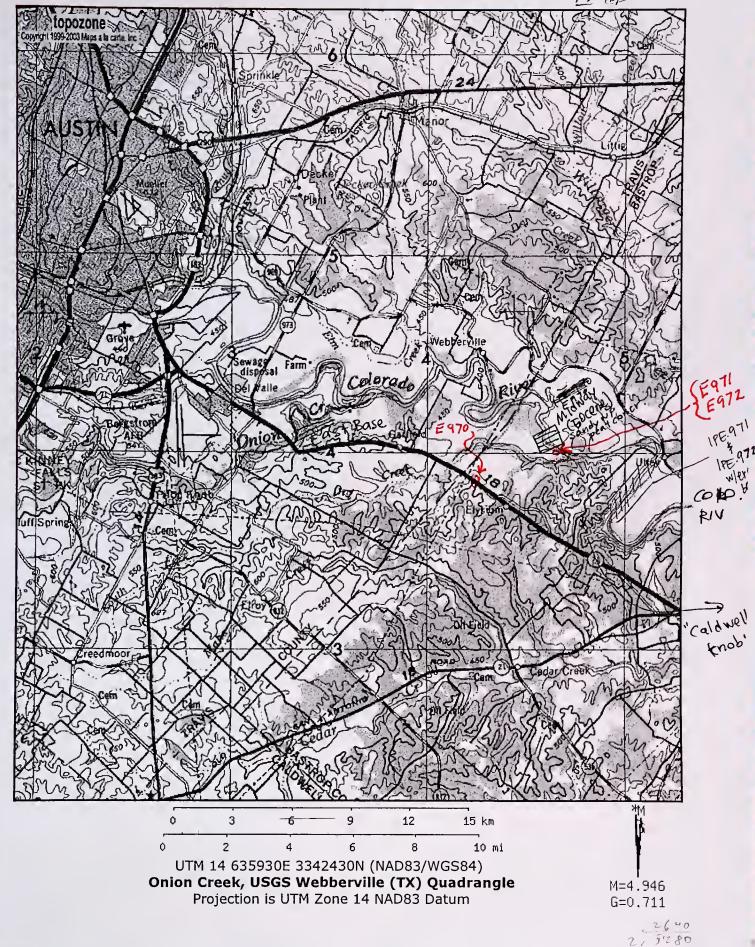
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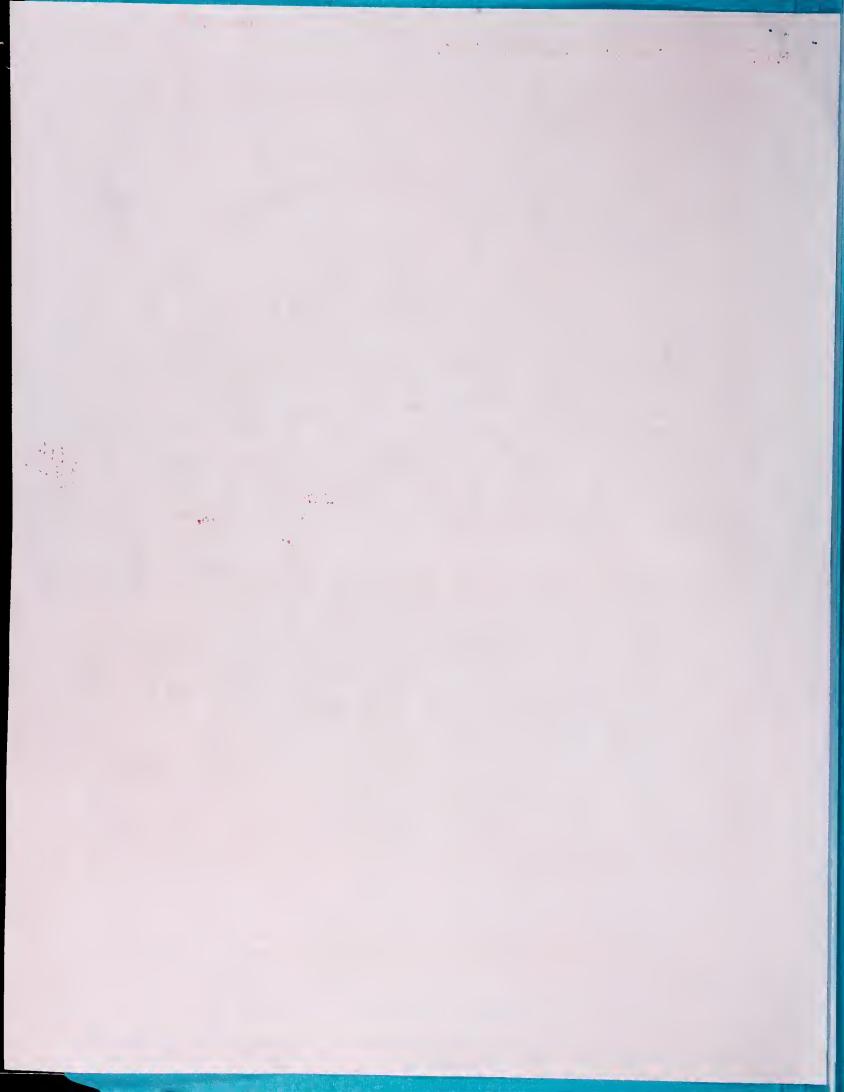
YALE UNIVERSITY 3820 PEABODY MUSEUM DATE: Cimil M NOTE BOOK 1026 PAGE Hille from it Com Secretal From Secretal Formation. For detail our note from John of above bearing servered. Construct I amon mile . C. S. and new Hardand



YALE UNIVERSITY 3620 PEABODY MUSEUM DATE: PAGE NOTE BOOK 10-16 PAGE Higher tran loc Do in of much Frondien. For ditail see note brok, 760' atreclased he work Local Man Into, m map C. S. and Frank Hancher (

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(PE.00970 Midway (Eacene)

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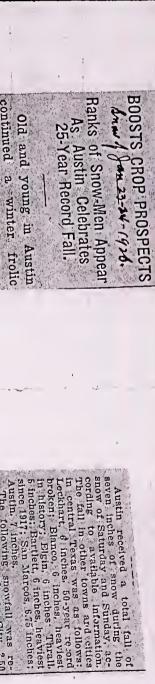
Elysiam to Culdonels gate Themen the fame of the atom to Change Rome gester the fame of the standard the section of the sectio to be Frame, legal, of least pelectors, and of an actuary of the prestor at un dance of the coal of the prestore at un dance of the sandy The property of ones such miles donn-stream for betrudile Charde River Boship Such ayle, Onin Sudne sell this loc. lettre the Prononicandia hulla tect is a "dark IMPORTANT bya? The feet of Conditioner are higher training here had been the service of the first and here was freeze there or as from small mast and agent took one fort third that any agent or the fort third that a acim When Cutacions form farm lands when there was a little rise in the country making the base.

This way - Eccene, There was a fine of the dip see. I have that emerchance another mile S. E. trouble to the sound the track of the sound here removed the format of our lexacents. are portrag held implace by a times. But have fait and but delection was only the cartal force to busin the try or with in the colored faith man of the orders on druste radical and for me A play who are not out of the facult i laurement gove of which are down and contain them 5 after the Other icardia help a confer for



han out to the himmy and DE to the word from to in Prairie that me of the motion some humat where the tone of the Piller man thinking ahead of his time! Schuchelt - A Forminique (hodoaria up to 38 mod buy) arec is said the he times midney have formers of amite in Kroks and erroud onit ! and then cleaned at home. When they's done do Common. orest 2 miles faither S. E to a read The read Oly the real me great less than 2 onle to have He make tanks I'm a four flut may be to rose in the local set this has Lock started Cliffet M. Dieber atout some fire is W. lavey Barelines. that however done have into get not be for Martin and about





Old and young a winter frolic continued a winter frolic continued a winter frolic sunday as the heaviest snow of history in this section of the state melted under the sun's rays which appeared from behind grey clouds Sunday for behind grey clouds Sunday for behind grey clouds Sunday for the first time in over 36 noon for the record breading at 6 o'clock which opening a six inch sours and spreading a six inch surrounding country. According to old-time residents nothing comparable to this bizzzard had ever been seen here.

Youthful residents of the university district and the downtown section reveiling in the heaviest snow ston reveiling in the heaviest snow seen here and the first real snow so the vert slight were seen on here so the city Sunday morning before traffic had changed the sixter of the city snow and dilling gurden to the morning and pedestrians, and both in hiles and pedestrians, and both in hiles and pedestrians, and both in hiles and grey snow mining arround the milyerity district and cown.

The corner of Seventh and Congress avenue became a sawwhall gress avenue gath Sunday morning when groups gath and pelted passing automobiles or threw snow balls at the rival group. Threw snow balls at the rival group and lined each side of the blook between Seventh and Eighth streets between Seventh and Eighth streets between Seventh and Eighth streets and were showering automobiles and were showering automobiles with snow balls from the time they with snow balls from the time they

Snow men in the yard of Roy A. Snow men in the yard of Roy A. Miller, 604 West Sixth street, and Miller, 604 West Sixth street, and the Central and Guadalupe street at the Central and Tree stations. attracted particular fire station. That at Central station was more than 15 feet high and

Austin, 7 inches.
Austin, 7 inches.
The following snowfall was rether founday: Johnson City, 2.50 ported Sunday: Johnson City, 2.50 ported Sunday: Johnson City, 2.50 process; Cherokee, blanker of snow; inches; Steady snow; Elmendorf, 2 inches; Steady snow; Elmendorf, 2 inches; Bernet, 6 inches; Burnet, 6 inches; Burnet, 6 inches; Burnet, 6 inches; Burnet, 6 inches; Comfort, 10 inches; Inches; Yoakum, 3 inches; Voctoria, inches; Yoakum, 3 inches; New Brauntels, 2.50 inches; 3 inches; New Brauntels, 2.50 inches.

3 inches; New Brauntels, 2.50 inches.

A CCORDING to the Dallas A News in 1925 Texas produced 150,000.000 barrels of petroleum, the price of Texas oil throughout that year averaged about \$1.75 a barrel and on that basis the value of petroleum in Texas for that

year exceeded \$260,000,000. Is there



Subject: Re: YPM numbers....

From: "JOCELYN ANNE SESSA" <jas884@psu.edu>

Date: Mon, 18 Feb 2008 13:36:15 -0500 **To:** Susan Butts <susan.butts@yale.edu>

Hi Susan,

The trip to Texas was excellent, so much material to work with!! I have a few updates for you:

IPE.00971 & 00972 - I think are both the Wills Point formation. 00970 is likely Wills Point as well (I didn't actually see any fossils from this particular collection).

For all three, the county is mislabeled and should be Bastrop.

I didn't visit them, but these outcrops, or equivalent strata very nearby, are still exposed on the Colorado River. They are described in:

Zachos, L. G., C. L. Garvie, and A. Molineux. 2005. Definitive locations of Paleocene and Eocene marine fossil localities, Colorado River, Bastrop County, Texas. The Texas journal of science 57(4):317-328.

And of course, I have a question — I can read most of Schuchert handwriting, but can't understand what he wrote on the page facing where you delineated the different locs - the last line says " So my fossils come from XXXX Midway" and you underlined it and wrote "important to you?"

and within IPE 971 "What we saw here was less than 10 ft of XXX Midway all XXXX (perhaps 'highly') fossiliferous"

I can scan the note page if you don't have it handy.

Much thanks!! I'll keep you updated on how processing and identifying goes.

~ Jocelyn

On Wed, Jan 16, 2008 04:51 PM Susan Butts <susan.butts@yale.edu> wrote:

Hi Jocelyn,

Mark has the white copy of the loan form in his envelope. You just got the "cc" letter, the "plan to publish" form, and the loc info.

Mark, Please return that white loan form when you get a chance! Thanks!

It's not particularly urgent (why do I ever say that??? it is like an invitation to ignore the form -- hey, get that form in ASAP!).

Have fun in Texas! Let me know if you have any modifications on the localities I made for the Schuchert locs (hopefully not "under parking lot of new housing development/walmart store/etc., Utley, TX").

Susan.

JOCELYN ANNE SESSA wrote:

Hi Susan,

I received the loan and the locality info today - much thanks! I am leaving tonight for a collecting and museum trip to the Austin, TX region, so having

the maps and Schuchert notes will be extremely helpful.

Yet another question (sorry!) -- in your letter, you state that Mark should return the white copy of the loan form to you. Is this the 'Plan to publish' form? I don't think that is the correct form...I went through the box of specimens and materials, but there is only a yellow packing slip in that box.

I'll be checking email when I can during my trip, and I've cc'ed Mark to this email in case something needs to be done immediately.

In any case, I'll be back from my trip and working on these specimens on Jan 23rd.

Thanks again, Jocelyn

Susan H. Butts, Ph.D.
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